

SEQUENCE LISTING

<110> Jay Short
Eric J. Mathur
W. Michael Lafferty
Nelson Barton
Kevin Chow

<120> Method of Making A Protein Polymer and
Uses of the Polymer

<130> DVSA-1005US

<150> 60/250,426
<151> 2000-11-30

<160> 10

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 624
<212> DNA
<213> Pyrodictium abyssi

<400> 1
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caggcagtaa gcgagccaaat agacgttagaa agccacctcg gcagcataac ccccgccagcc 180
ggcgcacagg gcagtgcacga cataggttac gcaatagtgt ggataaagga ccaggtcaat 240
gatgtaaagc tgaagggtgac cctgcgttaac gctgagcagc taaagcccta cttcaagtac 300
ctacagatac agataacaag cggctatgag acgaacagca cagctctagg caacttcagc 360
gagaccaagg ctgtgtataag cctcgacaac cccagcgcgg tgatagttact agacaaggag 420
gatatagcag tgctctatcc ggacaagacc ggttacacaa acacttcgat atgggtaccc 480
ggtaacactg acaagataat tgctctacaac gagacaaagc cagtagctat actgaacttc 540
aaggccttct acggggctaa ggagggtatg ctattcgaca gcctgcccagt gatattcaac 600
ttccaggtgc tacaagttagg ctaa 624

<210> 2
<211> 207
<212> PRT
<213> Pyrodictium abyssi

<400> 2
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1 5 10 15
Ala Leu Ala Leu Leu Ala Gly Phe Ala Thr Thr Gln Ser Pro Leu Asn
20 25 30
Ser Phe Tyr Ala Thr Gly Thr Ala Gln Ala Val Ser Glu Pro Ile Asp
35 40 45
Val Glu Ser His Leu Gly Ser Ile Thr Pro Ala Ala Gly Ala Gln Gly
50 55 60
Ser Asp Asp Ile Gly Tyr Ala Ile Val Trp Ile Lys Asp Gln Val Asn
65 70 75 80

Asp Val Lys Leu Lys Val Thr Leu Arg Asn Ala Glu Gln Leu Lys Pro			
85	90	95	
Tyr Phe Lys Tyr Leu Gln Ile Gln Ile Thr Ser Gly Tyr Glu Thr Asn			
100	105	110	
Ser Thr Ala Leu Gly Asn Phe Ser Glu Thr Lys Ala Val Ile Ser Leu			
115	120	125	
Asp Asn Pro Ser Ala Val Ile Val Leu Asp Lys Glu Asp Ile Ala Val			
130	135	140	
Leu Tyr Pro Asp Lys Thr Gly Tyr Thr Asn Thr Ser Ile Trp Val Pro			
145	150	155	160
Gly Glu Pro Asp Lys Ile Ile Val Tyr Asn Glu Thr Lys Pro Val Ala			
165	170	175	
Ile Leu Asn Phe Lys Ala Phe Tyr Glu Ala Lys Glu Gly Met Leu Phe			
180	185	190	
Asp Ser Leu Pro Val Ile Phe Asn Phe Gln Val Leu Gln Val Gly			
195	200	205	

<210> 3
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 <212> DNA
 <213> Pyrodictium abyssi

<400> 3
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 gcccacaaa gcgagccaat agacgttagag agccacctca gcagcatagc ccctgctgct 180
 ggcgcacagg gcagccagga cataggctac ttcaacgtga ccgccaagga tcaagtgaac 240
 gtgacaaaga taaaggtgac cctggctaac gctgagcagc taaagcccta cttcaagtac 300
 ctacagatag tgctaaagag cgaggttagct gacgagatca aggccgtaat aagcatagac 360
 aaggcttagcg ccgtcataat actagacagc caggactcg acagcaacaa cagagcaaag 420
 ataagcgcca ctgcctacta cgaggcttaag gagggcatgc tattcgacag cctaccgcta 480
 atattcaaca tacaggtgct aagcgtcagc taa 513

<210> 4
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 <212> PRT
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<400> 4
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 Asp Leu Ala Leu Leu Ala Gly Phe Ala Thr Thr Gln Ser Pro Leu Asn
 20 25 30
 Ser Phe Tyr Ala Thr Gly Thr Ala Ala Ala Thr Ser Glu Pro Ile Asp
 35 40 45
 Val Glu Ser His Leu Ser Ser Ile Ala Pro Ala Ala Gly Ala Gln Gly
 50 55 60
 Ser Gln Asp Ile Gly Tyr Phe Asn Val Thr Ala Lys Asp Gln Val Asn
 65 70 75 80
 Val Thr Lys Ile Lys Val Thr Leu Ala Asn Ala Glu Gln Leu Lys Pro
 85 90 95
 Tyr Phe Lys Tyr Leu Gln Ile Val Leu Lys Ser Glu Val Ala Asp Glu
 100 105 110
 Ile Lys Ala Val Ile Ser Ile Asp Lys Pro Ser Ala Val Ile Ile Leu

115	120	125
Asp Ser Gln Asp Phe Asp Ser Asn Asn Arg Ala Lys Ile Ser Ala Thr		
130	135	140
Ala Tyr Tyr Glu Ala Lys Glu Gly Met Leu Phe Asp Ser Leu Pro Leu		
145	150	155
Ile Phe Asn Ile Gln Val Leu Ser Val Ser		
165	170	

<210> 5
 <211> 537
 <212> DNA
 <213> Pyrodictium abyssi

<400> 5
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 caaggcgtaa gcgagccaaat agacgttagag agccacactag acaacaccat agcccccgtct 180
 gcccgtgcac agggctacaa ggacatgggc tacattaaga taactaacca gtcaaaaagtt 240
 aatgtataaa agctgaaggt gactctcgct aacgcccggc agctaaagcc ctacttcgac 300
 tacctacagc tagtactcac aagcaacgccc actggcaccgg acatggttaa ggctgtgcta 360
 agcctcgaga agcctagcgc agtcataata ctagacaacg atgactacga tagcactaac 420
 aagatacagc taaaggtaga agcctactat gaggctaaagg agggcatgct attcgacagc 480
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<210> 6
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 <212> PRT
 <213> Pyrodictium abyssi

<400> 6
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 Ala Leu Ala Leu Leu Ala Gly Phe Ala Thr Thr Gln Ser Pro Leu Ser
 20 25 30
 Ser Phe Tyr Ala Thr Gly Thr Ala Gln Ala Val Ser Glu Pro Ile Asp
 35 40 45
 Val Glu Ser His Leu Asp Asn Thr Ile Ala Pro Ala Ala Gly Ala Gln
 50 55 60
 Gly Tyr Lys Asp Met Gly Tyr Ile Lys Ile Thr Asn Gln Ser Lys Val
 65 70 75 80
 Asn Val Ile Lys Leu Lys Val Thr Leu Ala Asn Ala Glu Gln Leu Lys
 85 90 95
 Pro Tyr Phe Asp Tyr Leu Gln Leu Val Leu Thr Ser Asn Ala Thr Gly
 100 105 110
 Thr Asp Met Val Lys Ala Val Leu Ser Leu Glu Lys Pro Ser Ala Val
 115 120 125
 Ile Ile Leu Asp Asn Asp Asp Tyr Asp Ser Thr Asn Lys Ile Gln Leu
 130 135 140
 Lys Val Glu Ala Tyr Tyr Glu Ala Lys Glu Gly Met Leu Phe Asp Ser
 145 150 155 160
 Leu Pro Val Ile Leu Asn Phe Gln Val Leu Ser Ala Ala Cys Ser Pro
 165 170 175
 Leu Trp

<210> 7
<211> 311
<212> DNA
<213> Pyrodictium abyssi

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ctcggtacgc taaatactgc cgctggtgca cagggtaagc agacgctagg agacataaca 120
atatatgcgc acaatgacgt gaacataaca aagctaaagg tcacgcttgc taacgctgca 180
cagctaagac catacttcaa gtacctgata ataaagctag taagcctgga cagcaacggc 240
aacgagtccg agggaaaaggg catgataact ctatggaagc cttacgcccgt gataatacta 300
gaccatgaag a 311

<210> 8
<211> 130
<212> PRT
<213> Pyrodictium abyssi

<400> 8
Ser Phe Tyr Ala Thr Gly Thr Ala Gln Ala Val Ser Glu Pro Ile Asp
1 5 10 15
Val Val Ser Ser Leu Gly Thr Leu Asn Thr Ala Ala Gly Ala Gln Gly
20 25 30
Lys Gln Thr Leu Gly Asp Ile Thr Ile Tyr Ala His Asn Asp Val Asn
35 40 45
Ile Thr Lys Leu Lys Val Thr Leu Ala Asn Ala Ala Gln Leu Arg Pro
50 55 60
Tyr Phe Lys Tyr Leu Ile Ile Lys Leu Val Ser Leu Asp Ser Asn Gly
65 70 75 80
Asn Glu Ser Glu Glu Lys Gly Met Ile Thr Leu Trp Lys Pro Tyr Ala
85 90 95
Val Ile Ile Leu Asp His Glu Asp Phe Asn Asn Asp Ile Asp Gly Asp
100 105 110
Asn Gln Cys Gln Ile Asp Ala Thr Ala Tyr Tyr Glu Ala Lys Glu Gly
115 120 125
Met Leu
130

<210> 9
<211> 372
<212> DNA
<213> Pyrodictium abyssi

<400> 9
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acaatagaga acaagactga cgtgaacgtt gtgaagctga agataaccct cgccaaacgct 180
gagcagctaa agccctactt cgactaccta cagatagtgc taaagagcgt tgacagcaac 240
gagatcaagg ctgtgctaag cctcgagaag cccagcgcag tcataatact ggacaacgag 300
gacttccagg gcggcgacaa ccagtgccag atagacgcca ccgcctacta cgaggctaag 360
gagggtatgc ta 372

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<211> 124
<212> PRT
<213> Pyrodictium abyssi

<400> 10
Ser Phe Tyr Ala Thr Gly Thr Ala Glu Ala Thr Ser Glu Pro Ile Asp
1 5 10 15
Val Val Ser Asn Leu Asn Thr Ala Ile Ala Pro Ala Ala Gly Ala Gln
20 25 30
Gly Ser Val Gly Ile Gly Ser Ile Thr Ile Glu Asn Lys Thr Asp Val
35 40 45
Asn Val Val Lys Leu Lys Ile Thr Leu Ala Asn Ala Glu Gln Leu Lys
50 55 60
Pro Tyr Phe Asp Tyr Leu Gln Ile Val Leu Lys Ser Val Asp Ser Asn
65 70 75 80
Glu Ile Lys Ala Val Leu Ser Leu Glu Lys Pro Ser Ala Val Ile Ile
85 90 95
Leu Asp Asn Glu Asp Phe Gln Gly Asp Asn Gln Cys Gln Ile Asp
100 105 110
Ala Thr Ala Tyr Tyr Glu Ala Lys Glu Gly Met Leu
115 120